

R553FK

Description

Manifold kit with multifunction valves, consisting of:

- Delivery and return manifold, R553F series, formed of a delivery bar with front balancing lockshields equipped with a mechanical memory and flow meters (scale 0,5÷5 l/min), and a return bar with shut-off valves with manual handwheel, suitable for thermo-electric actuator.
- Pair of multifunction valves, R269T series, complete with terminal plugs for the manifold. Installed upstream of the manifold, they integrate the following functions:
 - Ball shut-off valves
 - Air vent valves
 - Filler/drain cocks
 - Contact thermometers
 - Inputs for immersion temperature probes \varnothing 6 mm
- Metal supports, R588Z series.
- Set of adhesive labels for identifying the various circuits.
- Adjustment spanner, R558 series.

Versions and product codes

Kit of pre-assembled manifolds

Product code	Connections Manifold x outputs	No. of outputs	Cabinets		
			Series	Product code	
R553FK102	1" x B.18	2	R500-1 (flush- mounting)	R500Y111	
R553FK103		3		R500Y221	
				R500Y215	
R553FK104		4		R500Y112	
				R500Y222	
				R500Y215	
R553FK105		5		R500Y112	
				R500Y222	
R553FK106		6		R500Y215	
				R500Y217	
R553FK107		7		R500-2 (flush- mounting)	R500Y112
				R500Y217	
R553FK108	8	R500-2E (flush with the wall)	R500Y113		
			R500Y223		
R553FK109	9	R500Y113			
		R500Y223			
		R500Y217			
R553FK110	10	R500Y113			
		R500Y223			
		R500Y218			
R553FK111	11	R500Y114			
		R500Y224			
		R500Y218			
R553FK112	12	R500Y114			
		R500Y224			
		R500Y218			

Flush-mounting cabinets for manifolds

Series	Product code	Cabinet dimensions [mm] (L x H x D)
R500-1 (flush- mounting)	R500Y111	400 x 460 x 110
	R500Y112	600 x 460 x 110
	R500Y113	800 x 460 x 110
	R500Y114	1000 x 460 x 110
R500-2 (flush- mounting)	R500Y221	400 x 650÷740 x 85÷130
	R500Y222	600 x 650÷740 x 85÷130
	R500Y223	800 x 650÷740 x 85÷130
	R500Y224	1000 x 650÷740 x 85÷130
	R500Y225	1200 x 650÷740 x 85÷130
R500-2E (flush with the wall)	R500Y215	500 x 450 x 80÷110
	R500Y217	700 x 450 x 80÷110
	R500Y218	850 x 450 x 80÷110

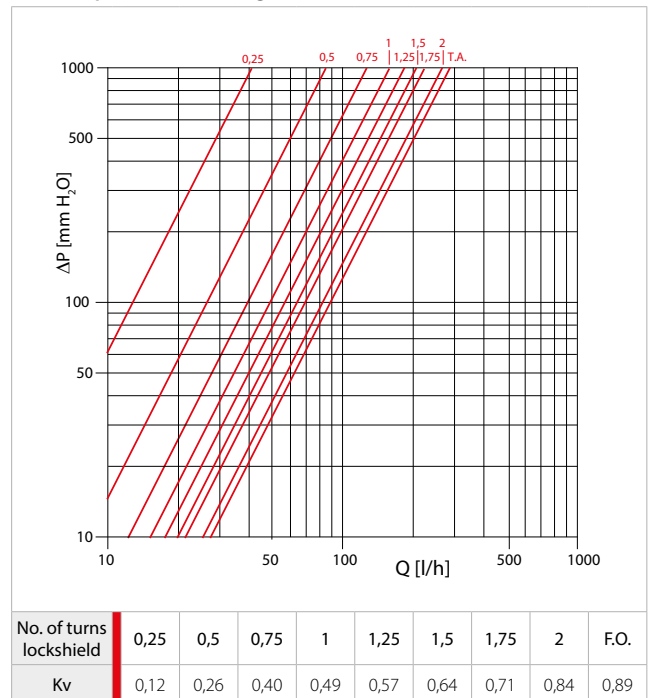
Technical data

- Temperature range 5÷110 °C
- Max. working pressure 10 bar
- Max. operating pressure of air vent: 7 bar
- Centre distance between the manifold outputs: 50 mm

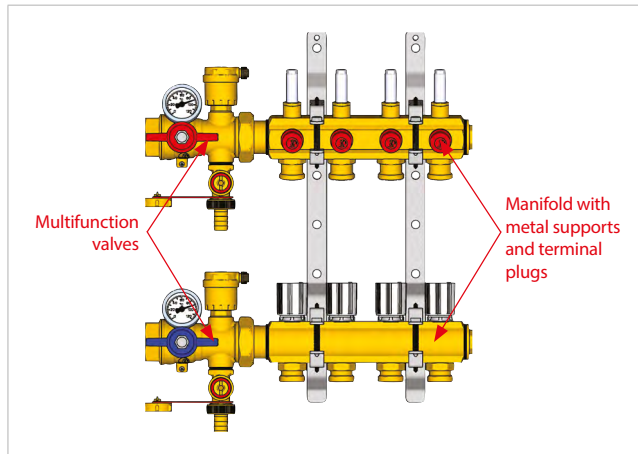
Materials

- Manifold and terminal plugs in brass
- Multifunction valves in brass
- EPDM seals
- Supports in galvanised steel

Losses of pressure of the single circuits



Kit components



Distribution manifold R553F

• The delivery manifold consists of a brass bar containing a balancing lockshield with mechanical memory for each circuit so that the calibration position in each one can be identified and maintained, even in the case of total interception.

The mechanical memory takes the form of a specific ring which, when regulated with the R558 spanner, limits the maximum opening of the lockshield to the value selected during the balancing phase.

To make the correct adjustment, fully open the metal ring using the screwdriver part of the R558 spanner, then close the lockshield fully down using the hexagonal part of the spanner.

Open the valve by the number of rotations determined via the calibration diagrams, then tighten the memory ring as far as it will go on the valve.

The flow meter allows to immediately read the flow rate circulating in the individual circuits, thereby ensuring optimum balancing.

• The return manifold is equipped with shut-off valves with a manual handwheel, suitable for thermo-electric command via the thermo-electric actuators R478, R478M, R473, R473M.

The actuators are assembled by releasing the handwheel on the manifolds and thereby freeing the valve connection.

R269T multifunction valves

Installed upstream of the manifold, they integrate the following functions:

- ball shut-off valve
- automatic air vent valve with self-sealing shut-off valve
- system filler/drain cock
- contact thermometer
- input for immersion temperature probe $\varnothing 6$ mm

R588Z metal supports

Metal supports for use in R500-1 or R500-2 flush-mounting metal cabinets and in R500-2E metallic cabinets flush with the wall.

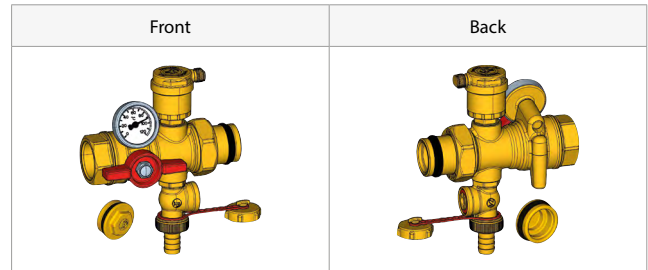
Adjustment spanner, adhesive labels and terminal plugs

The kit is completed with a set of adhesive labels for identifying the various circuits, an adjustment spanner for the brass lockshield valves and terminal plugs to be installed on the manifolds.

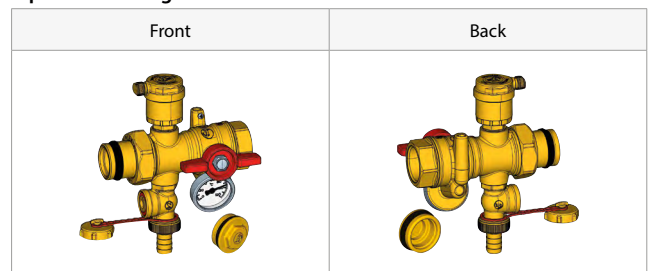
Installation

1) Install the R269T multifunction valves upstream from the manifold. They can easily be assembled with the input on the left or right, thanks to the self-sealing device on the air vent valve and filler/drain cock.

Input from the left



Input from the right

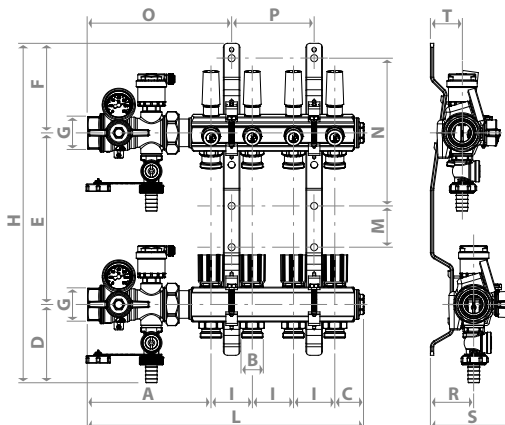


2) Install the manifold - complete with the metal supports, multifunction valves and plugs - inside the cabinets.

3) Connect the system pipes to the manifold units. When making the connection, use base 18 adaptors of the R178, R179 or R179AM series (depending on the pipe material).



Dimensions



Product code	No. of outputs	G x B	A [mm]	C [mm]	D [mm]	E [mm]	F [mm]	H [mm]	I [mm]	L [mm]	M [mm]	N [mm]	O [mm]	P [mm]	R [mm]	S [mm]	T [mm]	Cabinet
R553FK102	2	1" x B.18	149	36	95	208	108	411	50	235	50	179	174	-	53	99	38	R500Y111 R500Y221 R500Y215
R553FK103	3									285				50				R500Y111 R500Y221 R500Y215
R553FK104	4									335				100				R500Y112 R500Y222 R500Y215
R553FK105	5									385				150				R500Y112 R500Y222 R500Y215
R553FK106	6									435				200				R500Y112 R500Y222 R500Y217
R553FK107	7									485				250				R500Y112 R500Y222 R500Y217
R553FK108	8									535				300				R500Y113 R500Y223 R500Y217
R553FK109	9									585				350				R500Y113 R500Y223 R500Y217
R553FK110	10									635				400				R500Y113 R500Y223 R500Y218
R553FK111	11									685				450				R500Y114 R500Y224 R500Y218
R553FK112	12									735				500				R500Y114 R500Y224 R500Y218

Product specifications

R553FK

Preassembled manifold for HVAC systems - made of brass. With connections for adaptors for copper, plastic or multilayer pipe. Centre distance between the outputs 50 mm. Temperature range 5÷110 °C. Max. working pressure 10 bar. Max. operating pressure - air vent - 7 bar. Consisting of a pre-assembled manifold R553F and a pair of multifunction valves R269T, complete with terminal plugs. Available with connection for base 18 adaptors R178, R179, R179AM. For automatic circuit adjustment, use the thermo-electric actuators of the R478, R478M, R473 or R473M series.

Additional information

For additional information please check the website www.giacomini.com or contact the technical service: ☎ +39 0322 923372 📠 +39 0322 923255 ✉ consulenza.prodotti@giacomini.com
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